BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and construction of RCC drains at Basavalingappanagara and surrounding areas in Ward No. 03

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
		Cum							
	For RCC Drain								
	Basavalingappanagar								
	1st cross Rd		1	30.00	1.20	0.90	32.40		
	2nd cross Rd		2	32.00	1.20	0.90	69.12		
	3rd cross Rd		2	35.00	1.20	0.90	75.60		
	4th cross Rd		2	40.00	1.20	0.90	86.40		
	5th cross Rd		2	45.00	1.20	0.90	97.20		
	6th cross Rd		2	110.00	1.20	0.90	237.24		
	7th cross Rd		2	139.00	1.20	0.90	300.24		
	Samudhya Bhavana		1	26.00	1.40	0.90	32.76		
	Vishwanagara								
	Main Road		2	111.00	1.20	0.90	239.76		
	1st cross Rd		1	54.00	1.20	0.85	55.08		
	Rajeev Gandhi Nagar								
	Main Road		2	203.00	1.20	0.90	438.48		
	Apartment Rd, RHS		1	56.00	1.20	0.90	60.48		
	For RCC Culvert		10	6.60	1.50	1.00	99.00		
							1823.76	215.28	392618.62
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
		Cum							
	For RCC Drain								
	Basavalingappanagar								
	1st cross Rd		1	30.00	1.20	0.15	5.40		
	2nd cross Rd		2	32.00	1.20	0.15	11.52		
	3rd cross Rd		2	35.00	1.20	0.15	12.60		
	4th cross Rd		2	40.00	1.20	0.15	14.40		
	5th cross Rd		2	45.00	1.20	0.15	16.20		
	6th cross Rd		2	110.00	1.20	0.15	39.60		
	7th cross Rd		2	139.00	1.20	0.15	50.04		
	Samudhya Bhavana		1	26.00	1.20	0.15	4.68		
	Vishwanagara								
	Main Road		2	111.00	1.20	0.15	39.96		
	1st cross Rd		1	54.00	1.20	0.15	9.72		
	Rajeev Gandhi Nagar								
	Main Road		2	203.00	1.20	0.15	73.08		
	Apartment Rd, RHS		1	56.00	1.20	0.15	10.08		
	For RCC Culvert		10	6.60	1.50	0.15	14.85		
	For Kerb Stone								
	1st cross Rd		1	30.00	0.20	0.10	0.60		
	2nd cross Rd		2	32.00	0.20	0.10	1.28		

No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	3rd cross Rd		2	35.00	0.20	0.10	1.40		
	4th cross Rd		2	40.00	0.20	0.10	1.60		
	5th cross Rd		2	45.00	0.20	0.10	1.80		
	Vishwanagara								
	Main Road								
	1st cross Rd		2	111.00	0.20	0.10	4.44		
	Rajeev Gandhi Nagar		1	54.00	0.20	0.10	1.08		
	Main Road								
	For Concrete Road		2	203.00	0.20	0.10	8.12		
	Between Apartment small pieces								
			30	20.00	2.20	0.200	264.00		
							586.45	5421.90	**3179673.26**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Basavalingappanagar								
	1st cross Rd		1	30.00	1.10	0.15	4.95		
	2nd cross Rd		2	32.00	1.10	0.15	10.56		
	3rd cross Rd		2	35.00	1.10	0.15	11.55		
	4th cross Rd		2	40.00	1.10	0.15	13.20		
	5th cross Rd		2	45.00	1.10	0.15	14.85		
	6th cross Rd		2	110.00	1.10	0.15	36.30		
	7th cross Rd		2	139.00	1.10	0.15	45.87		
	Samudhya Bhavana		1	26.00	1.10	0.15	4.29		
	Vishwanagara								
	Main Road		2	111.00	1.10	0.15	36.63		
	1st cross Rd		1	54.00	1.10	0.15	8.91		
	Rajeev Gandhi Nagar								
	Main Road		2	203.00	1.10	0.15	66.99		
	Apartment Rd, RHS		1	56.00	1.10	0.15	9.24		
	side walls								
	Basavalingappanagar								
	1st cross Rd		2	30.00	0.15	0.60	5.40		
	2nd cross Rd		4	32.00	0.15	0.60	11.52		
	3rd cross Rd		4	35.00	0.15	0.60	12.60		
	4th cross Rd		4	40.00	0.15	0.60	14.40		
	5th cross Rd		4	45.00	0.15	0.60	16.20		
	6th cross Rd		4	110.00	0.15	0.60	39.60		
	7th cross Rd		4	139.00	0.15	0.60	50.04		
	Samudhya Bhavana		2	26.00	0.15	0.95	7.41		
	Vishwanagara								
	Main Road		4	111.00	0.15	0.60	39.96		
	1st cross Rd		2	54.00	0.15	0.90	14.58		
	Rajeev Gandhi Nagar								
	Main Road		4	203.00	0.15	0.60	73.08		
	Apartment Rd, RHS		2	56.00	0.15	0.60	10.08		
							558.21		
	For RCC Culvert								
	Raft		10	6.60	1.30	0.23	19.73		
	side walls		20	6.60	0.23	0.70	21.25		
							40.99		
					Net Qty.		**599.20**	7070.20	**4236435.56**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							

No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain	Tonne		558.21	0.070	--	39.07		
	Considering steel For Culvert			40.99	0.100	--	4.10		
							43.17	73992.24	**3194489.18**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Basavalingappanagar								
	4th cross Rd		2	40.00	0.90	--	72.00		
	5th cross Rd		2	45.00	0.90	--	81.00		
	6th cross Rd		2	110.00	0.90	--	198.00		
	7th cross Rd		2	139.00	0.90	--	250.20		
	Samudhya Bhavana		1	26.00	0.90	--	23.40		
	Vishwanagara								
	Main Road		2	111.00	0.90	--	199.80		
	1st cross Rd		1	54.00	0.90	--	48.60		
	Rajeev Gandhi Nagar								
	Main Road		2	203.00	0.90	--	365.40		
	Apartment Rd, RHS		1	56.00	0.90	--	50.40		
	Deduct Available slabs		-60	0.60	0.90	--	-32.40		
							1256.40	2337.00	**2936206.80**
6	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert Slabs	Sqm	10	6.60	1.20	--	**79.20**	5418.00	**429105.60**
7	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	For Drain	Nos							
	1st cross Rd		1	30.00			30.00		
	2nd cross Rd		2	32.00			64.00		
	3rd cross Rd		2	35.00			70.00		
	4th cross Rd		2	40.00			80.00		
	5th cross Rd		2	45.00			90.00		
	Vishwanagara								
	Main Road		2	111.00			222.00		
	1st cross Rd		1	54.00			54.00		
	Rajeev Gandhi Nagar								
	Main Road		2	203.00			406.00		
							1016.00		
							2258.00	432.48	**976539.84**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							

No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
8	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Drain	Sqm							
	1st cross Rd		1	30.00	0.25		7.50		
	2nd cross Rd		2	32.00	0.25		16.00		
	3rd cross Rd		2	35.00	0.25		17.50		
	4th cross Rd		2	40.00	0.25		20.00		
	5th cross Rd		2	45.00	0.25		22.50		
	Vishwanagara								
	Main Road								
	1st cross Rd		2	111.00	0.25		55.50		
	Rajeev Gandhi Nagar		1	54.00	0.25		13.50		
	Main Road								
			2	203.00	0.25		101.50		
							254.00	84.80	**21539.20**
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
9	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 with 8km lead= (I No-18.47,P No-140)								
	For Concrete Road	Cum							
	Between Apartment small pieces		30	20.00	2.20	0.250	330.00		
							330.00	973.42	**321228.60**
	Basic Rate Rs.=	899.00							
	Add 6% A.W Rs. =	53.94							
	Sub Total =	952.94							
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Total Rate Rs. =	**973.42**							
10	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shcluding provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-176,I No-22.6.1)								
	For Concrete Road	Cum							
	Between Apartment small pieces		30	20.00	2.20	0.150	198.00		
							198.00	5210.96	**1031770.08**
	Basic Rate Rs.=	4916.00							
	Add 6% A.W Rs. =	294.96							
	Total Rate Rs. =	**5210.96**							
11	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. (Page No 176 Item No 22.7)								
	For Concrete Road	Cum							
	Between Apartment small pieces		30	20.00	2.20		1320.00		
							1320.00	72.08	**95145.60**
	Basic Rate Rs.=	68.00							
	Add 6% A.W Rs. =	4.08							
	Total Rate Rs. =	**72.08**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
								Sub Total 1 Rs	16814752.51
	Add GST @ 12%								2017770.30
	Add KRIDL @ 4%								672590.10
	DPR & PMC Charges including								394000.00
								Sub Total 2 Rs	19899112.92
	Miscellaneous & Rounding off								887.08
								Total Rs	19900000.00

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3 The Provisions made in the estimate are quite necessary and adequate
4 The area comes with in the BBMP limits.

Assistant Engineer
Ward 03
BBMP

Assistant Executive Engineer
Yelahanka Newtown Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Administrative Sanction for Rs. 199.00 Lakhs
one Crore Ninety Nine
Lakhs only
is accorded under head P-3749
CM. Nava nagarothana grants
in 10 villages (Annexure-07)
Registered as CE No ..... Subject
to conditions contained in
No EE/YNK/71/2019-20 7/11/2019

Executive Engineer

Technical Sanction
Accorded For Rs 199 lakhs only
Head of A/C P-3749
CER NO : 212 Dt 8.11.2019

[A] CE (YNK)